

Application: 10/763898

Patent Abstract

File 347:JAPIO Dec 1976-2009/Jun(Updated 090923)

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File 350:Derwent WPIX 1963-2009/UD=200963

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Set	Items	Description
S1	3563	(MOUSE? ? OR MICE) (7N) (CURSOR? OR ARROW? OR INDICATOR? ?)
S2	5	(ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED) (10N) -
		(S1 (7N) (IMAGE OR IMAGES))
S3	1407877	FRAME OR FRAMES OR (DISPLAY OR DISPLAY (3N) UPDATE) (5N) C-
		YCLE? ?
S4	17	(ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED) (30N) -
		(S1 (7N) (IMAGE OR IMAGES))
S5	10	(S4 AND PY=1963:2003) OR (S4 AND AY=1963:2003 AND AC=US)
S6	117	(ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED) (10W) -
		S1
S7	1	S6 (30N) S3
S8	1	S6 (50N) S3
S9	1	S8 NOT S4
S10	124	(ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED) (5N) S1
S11	2	S10 (30N) S3
S12	1	S11 NOT (S4 OR S9)

Your application

Dialog eLink: [Order File History](#)

5/3,K/3 (Item 2 from file: 350)

DIALOG(R)File 350: Derwent WPIX

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0014413181 *Drawing available*

WPI Acc no: 2004-603165/200458

XRPX Acc No: N2004-477125

Computer e.g. server computer, display mouse cursor enhancing method, involves obtaining current mouse cursor speed to check whether speed exceeds threshold and generating enhanced mouse cursor if cursor speed exceeds threshold

Patent Assignee: MICROSOFT CORP (MICT)

Inventor: BAUDISCH P M; CUTRELL E B; ROBERTSON G G

Patent Family (1 patents, 1 countries)							
Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20040150619	A1	20040805	US 2003442860	P	20030124	200458	B
			US 2004763898	A	20040123		

Priority Applications (no., kind, date): US 2003442860 P 20030124; US 2004763898 A 20040123

Patent Details						
Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20040150619	A1	EN	19	13	Related to Provisional	US 2003442860

Original Publication Data by AuthorityArgentina**Publication No. ...Original Abstracts:**s path and adding a motion-blur effect along the interpolated path. According to yet **another** embodiment, an enhanced **mouse cursor** is generated **by interpolating** the **mouse cursor's** path **and a** plurality of **mouse cursor images** are **displayed along the** interpolated path.

Dialog eLink: Order File History

12/3,K/1 (Item 1 from file: 347)

DIALOG(R)File 347: JAPIO

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02465667 **Image available**

DATA PROCESSOR

Pub. No.: 63-082567 [JP 63082567 A]

Published: April 13, 1988 (19880413)

Inventor: SUMITA SHIGEKAZU

Applicant: TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)

Application No.: 61-227152 [JP 86227152]

Filed: September 27, 1986 (19860927)

Journal: Section: P, Section No. 750, Vol. 12, No. 317, Pg. 95, August 29, 1988 (19880829)

ABSTRACT

...is depressed and a coordinate point Ps is designated to the one point of the **frame**.

While the button of the **mouse** is depressed, a **cursor** is moved and the **other** point Pe is designated to set an area **frame**. In an area forming property sheet, a part indicated by slashes is selected as an... Di01

Patent Fulltext

File 348:EUROPEAN PATENTS 1978-200941

(c) 2009 European Patent Office

File 349:PCT FULLTEXT 1979-2009/UB=20091001|UT=20090924

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Set	Items	Description
S1	12374	(MOUSE? ? OR MICE) (7N) (CURSOR? OR ARROW? OR INDICATOR? ?)
S2	112	(ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED) (20N) -
		(S1 (7N) (IMAGE OR IMAGES))
S3	474733	FRAME OR FRAMES OR (DISPLAY OR DISPLAY (3N) UPDATE) (5N) C-
		YCLE? ?
S4	3	S2 (30N) S3
S5	5	S2 (100N) S3
S6	4	(S5 AND PY=1978:2003) OR (S5 AND AY=1978:2003 AND AC=US)
S7	3116	(ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED) (10N) -
		S1
S8	16	S7 (7N) S3
S9	20	S7 (10N) S3
S10	12	(S9 AND PY=1978:2003) OR (S9 AND AY=1978:2003 AND AC=US)
S11	12	S10 NOT S5

Dialog eLink: Order File History

6/3K/1 (Item 1 from file: 348)

DIALOG(R)File 348: EUROPEAN PATENTS

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01174674

Method of describing object region data, apparatus for generating object region data, video processing apparatus and video processing method

Verfahren zur Objektgebietdatenbeschreibung, Vorrichtung zur Objektgebietdatenerzeugung, Videoverarbeitungsvorrichtung, und Videoverarbeitungsverfahren

Procede de description de donnees de regions d'objets, dispositif pour generer des donnees de regions d'objets, dispositif de traitement de video, et methode de traitement de video

Patent Assignee:

- **KABUSHIKI KAISHA TOSHIBA;** (213130)
72, Horikawa-cho, Saiwai-ku; Kawasaki-shi, Kanagawa-ken 210-8572; (JP)
(Applicant designated States: all)

Inventor:

- **Osamu, Hori, c/o I.P.D. Kabushiki Kaisha Toshiba**
1-1 Shibaura 1-chome, Minato-ku; Tokyo, 105-8001; (JP)
- **Toshimitsu, Kaneko, c/o I.P.D. Kab. K. Toshiba**
1-1 Shibaura 1-chome, Minato-ku; Tokyo, 105-8001; (JP)
- **Takeshi, Mita, c/o I.P.D. Kab. K. Toshiba**
1-1 Shibaura 1-chome, Minato-ku; Tokyo, 105-8001; (JP)
- **Koji, Yamamoto, c/o I.P.D. Kab. K. Toshiba**
1-1 Shibaura 1-chome, Minato-ku; Tokyo, 105-8001; (JP)

Legal Representative:

- **Granleese, Rhian Jane (92091)**
Marks & Clerk, 57-60 Lincoln's Inn Fields; London WC2A 3LS; (GB)

	Country	Number	Kind	Date	
Patent	EP	1024667	A2	20000802	(Basic)
	EP	1024667	A3	20030604	
Application	EP	2000300657		20000128	
Priorities	JP	9920387		19990128	
	JP	99187033		19990630	

Designated States:

DE; FR; GB;

Extended Designated States:

AL; LT; LV; MK; RO; SI;

International Patent Class (V7): H04N-007/36**Abstract Word Count:** 117**NOTE:** 1**NOTE: Figure number on first page:** 1

Legal Status Type	Pub. Date	Kind	Text
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Language Publication: English

Procedural: English

Application: English

Fulltext Availability	Available Text	Language	Update	Word Count
CLAIMS A		(English)	200031	1117
SPEC A		(English)	200031	20916
Total Word Count (Document A) 22033				
Total Word Count (Document B) 0				
Total Word Count (All Documents) 22033				

Specification: ...of the image 2101 so that the image is reproduced at a normal display rate (**frame**/second)(or reproducing speed). In the display screen 2102 shown in FIG. 40B, the **mouse cursor** 2105 exists in the **image** region 2103. Therefore, display rate of the image is lowered or displayed image is frozen.

Another structure may be employed as a substitute for the above-mentioned structure in which image... ..image region. That is, whether or not an object having related information exists in the **frame** is determined (determination is made by comparing the **frame** number and the leading **frame** number/trailing **frame** number with each other). If the object having related information exists in the **frame**, the image display rate is lowered or the displayed

Dialog eLink: [Order File History](#)

6/3K/4 (Item 3 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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00230211

COMPUTER GRAPHICS SYSTEM
SYSTEME INFORMATIQUE GRAPHIQUE

Patent Applicant/Patent Assignee:

- **DIGITAL EQUIPMENT CORPORATION**

Inventor(s):

- **MEINERTH Kim**
- **BOUCHARD Joseph**
- **CASE Colyn**
- **CROUSE Robert**
- **FANNING Blaise**
- **FIELDING Kevin**
- **FRANKLIN Chris**
- **GAMACHE Rodney**
- **IRWIN John**
- **KIRK John**
- **KRISHNASWAMI Srinivasan**
- **LORD George**
- **MASUCCI Agnes M**
- **MOEZZI Ali**
- **PAYSON Christopher J**
- **SCOTT George**

	Country	Number	Kind	Date
Patent	WO	9304462	A1	19930304
Application	WO	92US7055		19920821
Priorities	US	91355		19910821
	US	91356		19910821
	US	91357		19910821
	US	91358		19910821
	US	91359		19910821
	US	91360		19910821
	US	91361		19910821

	Country	Number	Kind	Date
	US	91362		19910821
	US	91363		19910821

Designated States: (Protection type is "Patent" unless otherwise stated - for applications prior to 2004)

AU, JP, AT, BE, CH, DE, DK, ES, FR, GB,
GR, IE, IT, LU, MC, NL, SE

Language Publication Language: English

Filing Language:

Fulltext word count: 14796

Detailed Description:

...such as directional keys on a keyboard, or by an input device, such as a "**mouse**". The **cursor** appears as an overlay over **other images** that are displayed on the screen.

Information regarding the shape and size of the cursor... ..location are typically stored in a dedicated memory or in a portion of "off-screen" **frame** buffer memory, that is a portion of the **frame** buffer memory that does not correspond to a pixel on the screen of the display... ..of a cursor in which data relating to the cursor is stored in off screen **frame** buffer memory, most clearly seen in Fig. 3 of Muhich.

A problem with storing cursor...

Dialog eLink: [Order File History](#)

11/3K/1 (Item 1 from file: 348)

DIALOG(R)File 348: EUROPEAN PATENTS

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01694361

A system and method for whiteboard and audio capture

Ein System und Verfahren zur weissen Tafel und Audioerfassung

Un systeme et procede pour la saisie d'audio et de tableau blanc

Patent Assignee:

- **MICROSOFT CORPORATION;** (749866)
One Microsoft Way; Redmond, WA 98052; (US)
(Applicant designated States: all)

Inventor:

- **Zhang, Zhengyou**
10090 177th Ave NE; Redmond, WA 98052; (US)
- **Cutler, Ross**
16031 277th PL NE; Duvall, WA 98019; (US)
- **He, Li-Wei**
4221 W. Lake Sammamish Parkway NE; Redmond, WA 98052; (US)
- **Gupta, Anoop**
19908 NE 129th Street; Woodinville, WA 98072; (US)
- **Liu, Zicheng**
14743 SE 63rd Street; Bellevue, WA 98006; (US)

Legal Representative:

- **Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721)**
Maximilianstrasse 58; 80538 Munchen; (DE)

	Country	Number	Kind	Date	
Patent	EP	1388794	A2	20040211	(Basic)
Application	EP	2003012896		20030606	
Priorities	US	178443		20020619	

Designated States:

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;

FI; FR; GB; GR; HU; IE; IT; LI; LU; MC;

NL; PT; RO; SE; SI; SK; TR;

Extended Designated States:

AL; LT; LV; MK;

International Patent Class (V7): G06F-017/30**Abstract Word Count:** 106

NOTE: 1

NOTE: Figure number on first page: 1

Legal Status	Type	Pub. Date	Kind	Text
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Language Publication: English

Procedural: English

Application: English

Fulltext Availability	Available Text	Language	Update	Word Count
CLAIMS A		(English)	200407	2356
SPEC A		(English)	200407	12299
Total Word Count (Document A) 14655				
Total Word Count (Document B) 0				
Total Word Count (All Documents) 14655				

Specification: ...the thumbnails of the key frame images (e.g.,1502) are listed in the key **frame** pane 1504. Selecting one of the thumbnails 1502 with a **mouse cursor** or **other** input device brings the corresponding key **frame** image to the main window 1506 at the left and takes the application to the...

Dialog eLink: [Order File History](#)

11/3K/5 (Item 1 from file: 349)

DIALOG(R)File 349: PCT FULLTEXT

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01190008

SELECTIVELY UPDATING A DISPLAY IN A MULTI-DISPLAY SYSTEM
MISE A JOUR SELECTIVE D'UN AFFICHAGE DANS UN SYSTEME A ECRANS
MULTIPLES

Patent Applicant/Patent Assignee:

- **CLEARCUBE TECHNOLOGY INC**
8834 Capitol of Texas Highway, Austin, TX 78759; US; US(Residence);
US(Nationality); (For all designated states except: US)

Patent Applicant/Inventor:

- **THORNTON Barry W**
5705 Land's End, Austin, TX 78734; US; US(Residence); US(Nationality);
(Designated only for: US)

Legal Representative:

- **HOOD Jeffrey C(agent)**
Meyertons, Hood, Kivlin, Kowert & Goetzel, P.C., P.O. Box 398, Austin, TX
78767-0398; US;

	Country	Number	Kind	Date
Patent	WO	2004111830	A1	20041223
Application	WO	2004US18579		20040614
Priorities	US	2003458853		20030611

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG;
BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU;
CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI;
GB; GD; GE; GH; GM; HR; HU; ID; IL; IN;
IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR;
LS; LT; LU; LV; MA; MD; MG; MK; MN; MW;
MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY;
TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ;

VC; VN; YU; ZA; ZM; ZW;

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PL; PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;
SZ; TZ; UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Language Publication Language: English

Filing Language: English

Fulltext word count: 13653

Detailed Description:

...frame sequencing scheme which addresses the "sticky mouse" issue mentioned above. In this embodiment, the **frame** 702 containing the **mouse/cursor** information may be sent on an every- **other-frame** basis to eliminate the jerkiness of the mouse that would result from a too infrequent... ...display device from the user's perspective. For example, in the case where the active **frame** is the **cursor frame**, the responsiveness of the **mouse** or **other** pointing device may be roughly doubled as compared to the first frame sequence.

In one...

NPL Abstract

File 8: Ei Compendex(R) 1884-2009/Sep W4
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File 35: Dissertation Abs Online 1861-2009/Sep
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File 65: Inside Conferences 1993-2009/Oct 08
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File 2: INSPEC 1898-2009/Sep W4
(c) 2009 The IET
File 6: NTIS 1964-2009/Oct W2
(c) 2009 NTIS, Intl Cpyrght All Rights Res
File 144: Pascal 1973-2009/Oct W1
(c) 2009 INIST/CNRS
File 34: SciSearch(R) Cited Ref Sci 1990-2009/Sep W4
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File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 2006 The Thomson Corp
File 99: Wilson Appl. Sci & Tech Abs 1983-2009/Sep
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File 266: FEDRIP 2009/Aug
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File 583: Gale Group Globalbase(TM) 1986-2002/Dec 13
(c) 2002 Gale/Cengage
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(c) 2009 CSA.
File 60: ANTE: Abstracts in New Tech & Engineer 1966-2009/Sep
(c) 2009 CSA.

Set	Items	Description
S1	2032	(MOUSE? ? OR MICE) (7N) (CURSOR? OR ARROW? OR INDICATOR? ?)
S2	4	(ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(20N)	-	(S1 (7N) (IMAGE OR IMAGES))
S3	619950	FRAME OR FRAMES OR (DISPLAY OR DISPLAY (3N) UPDATE)
(5N) C-		YCLE? ?
S4	4	S2 AND PY <= 2003
S5	4	RD S4 (unique items)
S6	75	(ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(10N)	-	S1
S7	2	S6 AND S3
S8	2	S7 AND PY <= 2003
S9	2	RD S8 (unique items)
S10	2	S9 NOT S4
S11	169	(ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(30N)	-	S1
S12	2	S11 AND S3
S13	0	S12 NOT (S4 OR S10)

5/5,K/1 (Item 1 from file: 2)
DIALOG(R)File 2: INSPEC
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03354617

Title: Evaluation of a mouse as an educational pointing device

Author(s): Wilton, J.; McLean, R.S.

Author Affiliation: Peel Board of Educ., Mississauga, Ont., Canada

Inclusive Page Numbers: 287-92

Publisher: Nat. Res. Council of Canada, Ottawa, Ont.

Country of Publication: Canada

Publication Date: 1983

Conference Title: Proceedings of the Fourth Canadian Symposium on Instructional Technology

Conference Date: 19-21 Oct. 1983

Conference Location: Winnipeg, Man., Canada

Conference Sponsor: Nat. Res. Council of Canada

ISBN: 0 660 52519 4

Number of Pages: xvi+595

Language: English

Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: A `mouse' is a device for positioning a **cursor** or **other images** on a computer screen. It provides easy relative motion on the screen corresponding to hand movements on the work-surface beside the computer. In addition, selection of information on the screen can be signaled by the user by pressing one or more buttons located on the mouse. It thereby provides an effective one-handed input mechanism for manipulation of computer-based displays. With the mouse appearing on several computers and with reduced prices through mass production and new technologies, the mouse should be evaluated for educational use. The mouse has been shown to be the most effective pointing device based on tests with adults. This paper reports current research to determine if the mouse is also an effective device for use across the school age range. Implications for educational software design are discussed (5 refs.)

Subfile(s): C (Computing & Control Engineering)

Descriptors: computer graphic equipment; educational aids; educational computing

Identifiers: mouse; educational pointing device; cursor; images; computer screen; computer-based displays; educational use; school age

Classification Codes: C5540 (Terminals and graphic displays); C7810C (Computer-aided instruction)

INSPEC Update Issue: 1985-001

Copyright: 1985, IEE

Abstract: A `mouse' is a device for positioning a **cursor** or **other images** on a computer screen. It provides easy relative motion on the screen corresponding to hand...
(19830000)

10/5,K/1 (Item 1 from file: 2)

DIALOG(R)File 2: INSPEC

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07624548

Title: The classroom of the 21st century: the Interactive Learning Wall**Author(s):** Eckert, R.R.; Moore, J.A.**Author Affiliation:** Dept. of Comput. Sci., State Univ. of New York, Binghamton, NY, USA**Journal:** SIGCHI Bulletin , vol.32 , no.2 , pp.33-40**Publisher:** ACM**Country of Publication:** USA**Publication Date:** April 2000**ISSN:** 0736-6906**SICI:** 0736-6906(200004)32:2L:33:C2CI;1-G**CODEN:** SGBUD4**Language:** English**Document Type:** Journal Paper (JP)**Treatment:** Practical (P)

Abstract: The Interactive Learning Wall is a Windows/PC-based virtual blackboard system that can be controlled remotely by a classroom instructor and/or students. A laser pointer used by the instructor emulates mouse actions on a computer projection screen. An inexpensive video camera sends each projected **frame** to a video capture card in the computer; our software detects the bright laser spot, moves a screen **cursor**, and performs **other mouse** operations according to user actions. The system frees the instructor to move about the classroom as he/she controls the presentation. Other software allows students, from their laptop computers, to request control of the main computer's mouse and keyboard over a local network. This facilitates student interaction with the main computer's screen to perform tasks like: go to specific parts of the presentation; enter text; annotate diagrams; run programs. Both systems can help increase interactivity between instructor and students in a large classroom environment. Technical details are given (2 refs.)

Subfile(s): C (Computing & Control Engineering)**Descriptors:** computer aided instruction; computer displays; microcomputer applications; wireless LAN**Identifiers:** Interactive Learning Wall; Windows/PC-based virtual blackboard system; laser pointer; remote control; mouse action emulation; computer projection screen; video camera; video capture card; software; bright laser spot detection; screen cursor movement; laptop computers; local network; student interaction; classroom environment**Classification Codes:** C7810C (Computer-aided instruction); C5620L (Local area networks); C5540D (Computer displays)**INSPEC Update Issue:** 2000-025**Copyright:** 2000, IEE**Abstract:** ...emulates mouse actions on a computer projection screen. An inexpensive

video camera sends each projected **frame** to a video capture card in the computer; our software detects the bright laser spot, moves a screen **cursor**, and performs **other mouse** operations according to user actions. The system frees the instructor to move about the classroom... (**20000400**)

10/5,K/2 (Item 1 from file: 34)

DIALOG(R)File 34: SciSearch(R) Cited Ref Sci

(c) 2009 The Thomson Corp. All rights reserved.

04470539 **Genuine Article#:** TF634 **Number of References:** 37**Title:** LEARNING A NEW VISUOMOTOR TRANSFORMATION - ERROR-CORRECTION AND GENERALIZATION**Author:** ROBYBRAMI A; BURNOD Y**Corporate Source:** UPMC,CREARE,INSERM,9 QUAI ST BERNARD/F-75005 PARIS//FRANCE/; CREARE,CJF 933,INSERM/F-75252 PARIS 05//FRANCE/**Journal:** COGNITIVE BRAIN RESEARCH , 1995 , V 2 , N4 (OCT) , P 229-242**ISSN:** 0926-6410**Language:** ENGLISH **Document Type:** ARTICLE**Geographic Location:** FRANCE**Subfile:** SciSearch; CC LIFE--Current Contents, Life Sciences**Journal Subject Category:** NEUROSCIENCES; COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE

Abstract: The use of an aiming tool requires learning a new transformation between visual and proprioceptive information and motor command. We have examined this question by quantifying the kinematics of the movement during the transitory phase of adaptation to a rotational bias (60 degrees counterclockwise, then clockwise) **added** to a standard **mouse- cursor** device in the plane of the screen. Control-aiming movements were almost linear with a bell-shaped velocity profile. The bias induced an equivalent initial directional error which was usually corrected within 20 trials. The learning trajectories were combinations of spirals and fast or slow straight movements. The posture of the hand was slightly (less than 10 degrees) modified by the bias. These features suggest three corrective processes: on-line continuous correction based on evaluation of the relative cursor-to-target position, discrete correction based on assessment of the discrepancy angle between the cursor-to-target direction and the effective cursor direction, and memorization of trial-to-trial correction. These results are interpreted in the light of neurophysiological data and neural net modeling, which suggest that the visuomotor transformation performed by cortical areas for reaching is effected by projecting the visual information on a reference **frame** that rotates with the arm. The initial directional error reappeared when the direction of the target was changed and increased with degree of change. The limited generalization suggests that bias correction is stored in relation to the coding of the target direction and that movement towards a new direction is computed as a projection of the previously learned bias on the new visual direction.

Descriptors: SCIAuthor Keywords: LEARNING ; ADAPTATION ; MOTOR CONTROL ; VISUOMOTOR TRANSFORMATION ; VISUOMOTOR DISCREPANCY ; TRAJECTORY ; COMPUTER MOUSE

Identifiers: KeyWords Plus: PARIETAL ASSOCIATION CORTEX; NEURAL NETWORK MODEL; ARM MOVEMENTS; TRAJECTORY FORMATION; VISUAL TARGETS; ORGANIZATION; MONKEY; SPACE; COORDINATION;

CONNECTIONS

Research Fronts: 93-0780 001 (MODEL FOR REACHING CONTROL; SPEECH MOVEMENT VELOCITY PROFILES; MULTIJOINT ARM; TRAJECTORY FORMATION; MOTOR BEHAVIOR; HUMAN MUSCLE COORDINATION)
93-5147 001 (HRP-FILLED BASKET CELL AXONS IN THE CATS CEREBELLUM; LONG-TERM SYNAPTIC DEPRESSION; NEURAL NETWORKS)
93-5487 001 (REACHING MOVEMENTS; REGULATION OF VISUALLY GUIDED AIMING; IMPULSE VARIABILITY; MANUAL ASYMMETRIES; TEMPORAL INTERACTION; HUMAN-COMPUTER INTERFACE)

Cited References:

ABEND W, 1982, V105, P331, BRAIN
BLATT GJ, 1990, V299, P421, J COMP NEUROL
BROOKS VB, 1985, P1, CEREBELLAR FUNCTIONS
BULLOCK D, 1993, V5, P408, J COGNITIVE NEUROSCI
BULLOCK D, 1988, V95, P49, PSYCHOL REV
BURNOD Y, 1992, V12, P1435, J NEUROSCI
CAMINITI R, IN PRESS CEREBRAL CO
CAMINITI R, 1991, V11, P1182, J NEUROSCI
COLBY CL, 1988, V269, P392, J COMP NEUROL
COVEY E, 1982, V8, P681, SOC NEUR ABSTR
FITTS PM, 1954, V47, P381, J EXP PSYCHOL
FLASH T, 1985, V5, P1688, J NEUROSCI
FROLOV AA, 1993, V2, P141, NEURAL NETWORK WORLD
GOTTLIEB GL, 1993, V25, P153, J MOTOR BEHAV
GUIGON E, 1995, V5, P135, CEREB CORTEX
HAY L, 1984, P79, PSYCHOL HUMAN MOVEME
ITO M, 1984, CEREBELLUM NEURAL CO
JAKOBSON LS, 1989, V78, P575, EXP BRAIN RES
JEANNEROD M, 1988, NEURAL BEHAVIOURAL O
JOHNSON PB, 1992, P199, CONTROL ARM MOVEMENT
JOHNSON PB, 1993, V97, P361, EXP BRAIN RES
JOHNSON PB, IN PRESS CEREBRAL CO
KAWATO M, 1990, V62, P275, BIOL CYBERN
LACQUANITI F, 1982, V252, P394, BRAIN RES
LACQUANITI F, IN PRESS CEREBRAL CO
MORASSO P, 1981, V42, P222, EXP BRAIN RES
MOTTER BC, 1981, V1, P3, J NEUROSCI
MOUNTCASTLE VB, 1975, V38, P871, J NEUROPHYSIOL
PAILLARD J, 1991, P163, BRAIN SPACE
PANDYA DN, 1982, V204, P196, J COMP NEUROL
ROBYBRAMI A, 1992, P1656, 14TH P ANN INT C IEE
ROSSETTI Y, 1993, V54, P355, PERCEPT PSYCHOPHYS
SAKATA H, 1980, V43, P1654, J NEUROPHYSIOL
SAKATA H, 1985, V25, P453, VISION RES
SOECHTING JF, 1992, V15, P167, ANN REV NEUROSCI
VIVIANI P, 1980, P525, TUTORIALS MOTOR BEHA

WELCH RB, 1986, V1, HDB PERCEPTION HUMAN

Journal: , 1995

Abstract: ...during the transitory phase of adaptation to a rotational bias (60 degrees counterclockwise, then clockwise) **added** to a standard **mouse-cursor** device in the plane of the screen. Control-aiming movements were almost linear with a... ...by cortical areas for reaching is effected by projecting the visual information on a reference **frame** that rotates with the arm. The initial directional error reappeared when the direction of the...

Descriptors:

NPL Fulltext

File 275:Gale Group Computer DB(TM) 1983-2009/Sep 08
(c) 2009 Gale/Cengage
File 47:Gale Group Magazine DB(TM) 1959-2009/Sep 24
(c) 2009 Gale/Cengage
File 621:Gale Group New Prod.Annou.(R) 1985-2009/Aug 31
(c) 2009 Gale/Cengage
File 636:Gale Group Newsletter DB(TM) 1987-2009/Sep 14
(c) 2009 Gale/Cengage
File 148:Gale Group Trade & Industry DB 1976-2009/Sep 21
(c) 2009 Gale/Cengage
File 624:McGraw-Hill Publications 1985-2009/Oct 08
(c) 2009 McGraw-Hill Co. Inc
File 98:General Sci Abs 1984-2009/Oct
(c) 2009 The HW Wilson Co.
File 553:Wilson Bus. Abs. 1982-2009/Oct
(c) 2009 The HW Wilson Co
File 15:ABI/Inform(R) 1971-2009/Oct 07
(c) 2009 ProQuest Info&Learning
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(c) 2009 ProQuest Info&Learning
File 9:Business & Industry(R) Jul/1994-2009/Oct 08
(c) 2009 Gale/Cengage
File 610:Business Wire 1999-2009/Oct 08
(c) 2009 Business Wire.
File 810:Business Wire 1986-1999/Feb 28
(c) 1999 Business Wire
File 647:UBM Computer Fulltext 1988-2009/Oct W1
(c) 2009 UBM, LLC
File 674:Computer News Fulltext 1989-2006/Sep W1
(c) 2006 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2009/Oct 07
(c) 2009 Dialog
File 369:New Scientist 1994-2009/Sep W4
(c) 2009 Reed Business Information Ltd.
File 613:PR Newswire 1999-2009/Oct 08
(c) 2009 PR Newswire Association Inc
File 813:PR Newswire 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc
File 370:Science 1996-1999/Jul W3
(c) 1999 AAAS
File 16:Gale Group PROMT(R) 1990-2009/Sep 14
(c) 2009 Gale/Cengage
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 484:Periodical Abs Plustext 1986-2009/Oct 07
(c) 2009 ProQuest
File 634:San Jose Mercury Jun 1985-2009/Sep 26
(c) 2009 San Jose Mercury News

Set	Items	Description
S1	10131	(MOUSE? ? OR MICE) (7N) (CURSOR? OR ARROW? OR INDICATOR? ?)
S2	34	(ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(20N)	-	

```

                (S1 (7N) (IMAGE OR IMAGES))
S3      1096434  FRAME OR FRAMES OR (DISPLAY OR DISPLAY (3N) UPDATE)
(5N) C-
                YCLE? ?
S4          28  S2 AND PY <= 2003
S5          23  RD S4  (unique items)
S6          1572 (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(20N)  -
                S1
S7          21  S6 (30N) S3
S8          20  S7 NOT S4
S9          17  S8 AND PY <= 2003
S10         10  RD S9  (unique items)
S11         199733 (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED)
(20N)  -
                (CURSOR? OR ARROW? OR INDICATOR? ?)
S12         74468 (ADDITIONAL OR OTHER OR ANOTHER OR EXTRA OR ADDED) (7W)
(-
                CURSOR? OR ARROW? OR INDICATOR? ?)
S13         32  S12 (5N) S3
S14         32  S13 NOT (S7 OR S9)
S15         25  S14 AND PY <= 2003
S16         16  RD S15 (unique items)

```

Dialog eLink:

USPTO Full Text Retrieval Options

5/5,K/11 (Item 1 from file: 15)

DIALOG(R)File 15: ABI/Inform(R)

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00980345 96-29738

****USE FORMAT 7 OR 9 FOR FULL TEXT****

Building future medical education environments over ATM networks

Schnepf, James A; Du, David H C; Ritenour, E Russell; Fahrman, Aaron J

Communications of the ACM v38n2 pp: 54-69

Feb 1995

ISSN: 0001-0782 **Journal Code:** ACM

Document Type: Journal article **Language:** English **Length:** 16 Pages

Special Feature: Charts Diagrams References

Word Count: 8108

Abstract:

The educational requirements of society are changing. Education must be a lifelong process to allow people, particularly those in technical disciplines, to keep up with their changing fields. This is especially true with medical education. It has been difficult to provide this training to health care practitioners who are spread over a wide geographical area and who cannot travel away from their communities for lengthy training sessions. To meet the needs of this expanding base of students, it is necessary to go beyond the traditional campus setting and bring education to students. The last decade has seen radical improvements in communications technology, brought about by advances in optical devices and transmission systems. Asynchronous transfer mode networks operating at gigabits-per-second speed are becoming a reality. At the same time, more powerful processors, special hardware chips, and the development of high-capacity storage devices have made multimedia applications an emergent field. These technical advances give the opportunity to provide education and training in ways not possible just a few short years ago. Details are discussed.

Descriptors: Asynchronous transfer mode; Communications networks; Technological change; Applications; Education; CAI; Medical personnel

Classification Codes: 6200 (CN=Training & development); 5250 (CN=Telecommunications systems); 8320 (CN=Health care industry)

Text:

...allow the instructor to view the images projected and make adjustments as required. Additionally, two **mice** control **cursors** on the two **image** screens and can be used as pointing devices to highlight points of interest on the images. Two **additional** monitors provide the instructor with a view of the remote-site students. During class sessions...

5/5,K/21 (Item 1 from file: 647)
DIALOG(R)File 647: UBM Computer Fulltext
(c) 2009 UBM, LLC. All rights reserved.

01061410 **CMP Accession Number:** WIN19950901S0098
Key Tronic KB101 Plus-C - The Key(board) to Windows 95
(In Brief)
James E. Powell
WINDOWS MAGAZINE , 1995 , n 61 , PG170
Publication Date: 950901
Journal Code: WIN **Language:** English
Record Type: Fulltext
Section Heading: Winlab First Impressions
Word Count: 382
Text:

Key Tronic has designed a new 101-key-style keyboard with three extra keys that Windows 3.1 and Windows 95 users will appreciate. Key Tronic shortened the spacebar's length on the KB101 Plus-C keyboard- it's still plenty long enough-and **added** a button on each side with the Windows logo. There's also **another** key on the right with the **image** of a **mouse cursor** pointing to a menu list. After running the Microsoft IntelliType software (with Windows 3.1 only), pressing the Windows key brings up a replacement Task Manager, which lets you assign default actions to the function keys, switch tasks and arrange windows. Surprisingly, pressing the mouse-pointer button has no effect. The IntelliType software also lets you control keyboard options (the same as you'll find in Control Panel) and gives you the ability to snap the cursor to the default button. Microsoft Natural Keyboard users are already familiar with those features.

, 1995 , v

Text:
...s length on the KB101 Plus-C keyboard- it's still plenty long enough-and **added** a button on each side with the Windows logo. There's also **another** key on the right with the **image** of a **mouse cursor** pointing to a menu list. After running the Microsoft IntelliType software (with Windows 3.1...

10/5,K/7 (Item 1 from file: 621)
DIALOG(R)File 621: Gale Group New Prod.Annou.(R)
(c) 2009 Gale/Cengage. All rights reserved.

02702984 Supplier Number: 66432400 (THIS IS THE FULLTEXT)
MultiView Group Announces MultiView Catalyst Version 6.0; Offers Rapid, Point-and-Click Internet Access To Legacy UNIX Applications.

Business Wire , p 2064
Oct 30 , 2000

Language: English **Record Type:** Fulltext

Document Type: Newswire ; Trade

Word Count: 1057

Text:

Business Editors/High-Tech Writers

SCOTTS VALLEY, Calif.--(BUSINESS WIRE)--Oct. 30, 2000

MultiView Group, part of SurfControl, Inc., today announced the availability of its Web-to-host connectivity software, MultiView Catalyst

version 6.0. Giving customers point-and-click Web access to their legacy

UNIX applications in an "Internet instant," MultiView Catalyst is the fastest and easiest way to face-lift and Web-enable UNIX applications. New

features to MultiView Catalyst version 6.0 include complete printing support, end-to-end security, a Web page design wizard and enhanced monitoring and session connectivity capabilities.

According to market research firm Meta Group, by 2004 more than 90

percent of legacy data will be accessible via Internet, intranet and extranet technologies. Furthermore, by 2003 UNIX servers are expected to

capture \$37 billion in end user spending, according to International Data

Corp. (IDC). These statistics represent the widespread effort among IT organizations to move legacy UNIX applications to the Web.

Specifically designed for the UNIX environment, MultiView Catalyst

offers UNIX customers the most cost-effective and efficient solution for

face-lifting and connecting UNIX applications to the Web. In addition, MultiView Catalyst provides monitoring and usage abilities for assisting

application service providers (ASPs) who offer outsourced Web-to-host connectivity services.

"MultiView Catalyst 6.0 is a result of direct feedback from corporate and ASP customers who are desiring a more cost-effective solution

for connecting legacy UNIX applications to the Web," said Andreas Mueller,

vice president of marketing for MultiView Group. "For the first time, customers can -- without delay -- face-lift and deliver UNIX applications

to any Web browser."

"MultiView Catalyst Version 6.0 clearly offers the most functionality and ease-of-use of any software solution for connecting UNIX applications to the Web," said systems architect Donald Treon with Prophet 21, a provider of distribution software for wholesale distributors on SQL Server, UNIX, and AS/400 platforms. "With the large numbers of users accessing UNIX boxes via the Web, a dire need exists for a UNIX Web-to-host solution. Yet, almost all of the Web-to-host solutions out there are specifically designed for the IBM market space and lack UNIX focus. None of these products come close to offering the capabilities of MultiView Catalyst for connecting UNIX applications to the Web."

"Market forces are requiring software vendors to offer more effective ways to manage and administer enterprise software performance," said Barton Taylor, partner and research director for Giotto Perspectives of Watertown, Mass. "The release of MultiView Catalyst version 6.0 demonstrates that presentation-layer middleware has grown in sophistication to reflect a transition to 'service-centric' frameworks. By adding features such as performance monitoring, licensing and systems management -- with security -- the MultiView Group has created a centralized way to meet the growing demands for performance management capabilities."

New Capabilities for MultiView Catalyst Version 6.0

-- Complete Printing Support -- MultiView Catalyst features a unique range of

printing capabilities for both internal and remote users. In addition to print int

screen and auxiliary or pass-through printing, users can also perform

background printing via completely secure connections (SSH and SSL) with LP

printing. Bandwidth is maximized, since print jobs are handled in the same

session and the print priority can be set.

-- Session Resume -- A new Session Resume feature assures solid remote

connections and adds network stability since client connections or print jobs can be quickly resumed with one click of the mouse.

-- Enhanced Monitoring Capabilities -- System administrators and ASPs can

effortlessly monitor software usage and user workloads from a browser. This

means that from any location, administrators can quickly resolve support issues

or disconnect sessions, when necessary.

-- Flexible Enterprise Licensing -- Now it is even easier to purchase and

deploy the MultiView product line since customers can purchase one set of

licenses and use any combination of products, such as MultiView Catalyst,

MultiView 2000 and MultiView 2000 Server Edition. Installation for PC-level

,

thin client and Web-based users can be centrally controlled via the MultiView

License Manager and shared product license keys provide load balancing, server

resilience and backup, and virtually unlimited scalability.

-- Enhanced Security -- With Secure Shell (SSH v1) support, all data exchanges

between the terminal emulation client and the remote UNIX server are fully

encrypted and secure. MultiView Catalyst provides a complete security wrapper

that protects data traffic from the Web Client to the Catalyst Server (SSL) and

from the Catalyst Server to the UNIX host (SSH).

-- Smart Cursor Improved Mouse Navigation -- Better user integration with the

UNIX environment now allows the user more **mouse** flexibility when face-lifting UNIX applications. Smart **Cursor** provides **added** productivity since edit fields and **other** areas on the screen can be selected with the **mouse** on-the-fly instead of with **arrow** keys or tabs.

-- Web Page Wizard -- Since systems administrators are not necessarily Web

designers, a new Web Page Wizard makes it easy for anyone to generate a Web

frame

on the fly. The Web Page Wizard automates the Web design process,

providing the fastest way to set up display parameters and turn boring UNIX

screens into dynamic Web pages.

Pricing, Support & Availability

MultiView Catalyst Version 6.0 is now available for purchase

with

pricing for 10 concurrent users starting at \$2,295. There is no additional

charge for the host software on the server and the client software may be

distributed freely. For more information, customers may visit MultiView Group's Web site at <http://www.multiviewgroup.com> or call 800/572-8649 or

831/431-1600.

About SurfControl (formerly JSB)

SurfControl plc (EASDAQ:SRFC/London:SRF), is a world leader in Responsible Internet Usage offering a complete line of Internet filtering

solutions for use in the home, education and the corporation. The SurfControl family of products employs expert filtering, Pass-Through, and

Pass-By technologies to create a productive Internet environment in the workplace and a child safe room on the Internet at home and at school.

MultiView Group, part of SurfControl, focuses on web-to-host, thin client

and PC connectivity in the UNIX market.

SurfControl works with a variety of partners such as AltaVista, CheckPoint Software (Nasdaq:CHKP), Cisco Systems (Nasdaq:CSCO), Google, Hewlett Packard (Nasdaq:HWP), IBM (Nasdaq:IBM), ICSA, Microsoft's Web TV

(MSFT), Netscape (Nasdaq:NCSP), WorldGate (Nasdaq:WGAT), and YAHOO! (Nasdaq:YHOO).

SurfControl employs over 300 people worldwide and has offices in the

U.S. in Calif. and Mass.; in the U.K. in Manchester and London; Rotterdam,

Holland; Vienna, Austria; Frankfurt, Germany.

Note to editors: All brands or trademarks are the property of their respective owners.

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Publisher Name: Business Wire

Company Names: *SurfControl Inc.

Geographic Names: *1USA (United States)

Product Names: *3661251 (Communications Servers)

Industry Names: BUS (Business, General); BUSN (Any type of business)

SIC Codes: 3661 (Telephone and telegraph apparatus)

NAICS Codes: 33421 (Telephone Apparatus Manufacturing)

-

...Improved Mouse Navigation -- Better user integration with the
UNIX environment now allows the user more **mouse**
flexibility when face-lifting
UNIX applications. Smart **Cursor** provides **added**
productivity since edit fields
and **other** areas on the screen can be selected with the
mouse on-the-fly instead
of with **arrow** keys or tabs.

-- Web Page Wizard -- Since systems administrators are not necessarily
Web

designers, a new Web Page Wizard makes it easy for anyone to generate a
Web

frame
on the fly. The Web Page Wizard automates the Web design process,
providing the fastest...

20001030

16/5,K/14 (Item 3 from file: 484)
DIALOG(R)File 484: Periodical Abs Plustext
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04436297 **Supplier Number:** 99376356 (USE FORMAT 7 OR 9 FOR FULLTEXT
)

Computer aided assembly robustness evaluation

Soderberg, Rikard; Lindkvist, Lars

Journal of Engineering Design (JOED) , v10 n2 , p 165-181 , p. 17

Jun 1999

ISSN: 0954-4828 **Journal Code:** JOED

Document Type: Feature

Language: English **Record Type:** Fulltext; Abstract

Word Count: 5192

Abstract:

This paper presents a methodology and a software that allows assemblies to

be evaluated with respect to robustness and geometrical stability. The assembly robustness evaluation aims at detecting design and assembly solutions that are sensitive to variation and may cause problems later during production.

Copyright Carfax Publishing Ltd 1999

Descriptors: Design engineering; Computer aided design; CAD; Assembly lines

Special Features: Illustration Photograph References

1999

TEXT:

...a part, with respect to which all other features are positioned and to

which all **other** features and tolerances refer.

The (**arrow up**)P-**frame**' (the master location system) constitutes the positioning scheme for the part, positioning the part in...

...scheme which positions the part in its final position may be shifted without interfering with **other** features of the part. If the (**arrow up**)P-**frame** is used for both positioning and as a reference (local coordinate system) for other features...to 'ground' by their own (arrow up)P-frames, and there is no influence from **other** parts or (**arrow up**)P-**frames**. The position of each part is controlled only by its corresponding (arrow up)P-frame...

...last part in the chain, part D, is controlled by its own (arrow up)P-

frame and every **other** (**arrow up**)P-**frame** in the assembly. This case represents a 'decoupled' assembly solution, represented by a triangular design...